Curriculum Vitae

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Education

2009-2013	B.A., (Mathematics) Creighton University, GPA: 4.0
2013-2017	M.D., Creighton University School of Medicine

Residency Training

2017-2018	Medical Internship, Dartmouth-Hitchcock Medical Center
2018-2021	Adult Psychiatry Residency [Research Track], Dartmouth-Hitchcock Medical Center & Geisel School of Medicine at Dartmouth College

Postdoctoral Training

2021-2022	Postdoctoral Research Fellowship, Biomedical Data Science, Geisel School of Medicine, Dartmouth College (Funding Source R01MH123482)
2022-2024	Postdoctoral Research Fellowship, Biomedical Data Science, Geisel School of Medicine, Dartmouth College (Funding Source T32 CA134286)

BIBLIOGRAPHY

A. PEER-REVIEWED PUBLICATIONS IN PRINT, IN PRESS OR OTHER MEDIA

NUMBER   PUBLICATION

17   Tlachac, M.L., **Heinz, M.V.**, Reisch, M., Ogden, S. 2024. Symptom Detection with Text Message Log Distributions for Holistic Depression and Anxiety Screening. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 8, 1, Article 19 (March 2024), 28 pages. https://doi.org/10.1145/3643554

16   Arvind Pillai, Subigya Kumar Nepal, Weichen Wang, Matthew Nemesure, **Michael Heinz**, George Price, Damien Lekkas, Amanda C. Collins, Tess Griffin, Benjamin Buck, Sarah Masud Preum, Trevor Cohen, Nicholas C. Jacobson, Dror Ben-Zeev, and Andrew Campbell. 2024. Investigating Generalizability of Speech-based Suicidal Ideation Detection Using Mobile Phones. Proc. ACM Interact. Mob. Wearable Ubiquitous Technol. 7, 4, Article 174 (December 2023), 38 pages. https://doi.org/10.1145/3631452

15   Price, G., **Heinz, M.V.,** Collins, A.C., Jacobson, N.C. Detecting Major Depressive Disorder Presence Using Passively-Collected Wearable Movement Data in a Nationally-Representative Sample. Psychiatry Research. 2024.

14   Bryan, A.C.†, **Heinz, M.V.†**, Salzhauer, A.J., Price, G., Tlachac, M.L., Jacobson. Behind the Screen: A Narrative Review on the Translational Capacity of Passive Sensing for Mental Health Assessment. Biomedical Sensors and Devices (2023). Accepted for Publication. In Press. † Authors Made Equal Contribution.

13   Price, G., **Heinz, M.V.,** Song, S., Nemesure, M., Jacobson, N.C. Using Digital Phenotyping to Capture Depression Symptom Variability: Detecting Naturalistic Variability in Depression Symptoms Across One Year Using Passively-Collected Wearable Movement and Sleep Data. Translational Psychiatry (2023). In Press.

12   Wald ER, Eickhoff J, Flood GE, **Heinz MV**, Liu D, Agrawal A, Morse RP, Raney VM, Veerapandiyan A and Madan JC (2023) Estimate of the incidence of PANDAS and PANS in 3 primary care populations. Front. Pediatr. 11:1170379.doi: 10.3389/fped.2023.1170379

11   ML Tlachac, M Reisch, **Heinz, M.V**., Mobile Communication Log Time Series to Detect Depressive Symptoms, Proceedings from the 45th International Conference of IEEE Engineering in Medicine and Biology Society (EMBC), 2023

10   **Heinz, M.V.**, Bhattacharya, B., Trudeau, B., Quist, R., Song, S.H., Lee, C., Jacobson, N.C. Testing Domain Knowledge and Risk of Bias of a Large Scale General A.I. Model in Mental Health (2023). DIGITAL HEALTH. 2023;9. doi:10.1177/20552076231170499

9   Wang B, Nemesure MD, Park C, Price GD, **Heinz MV**, Jacobson NC. Leveraging deep learning models to understand the daily experience of anxiety in teenagers over the course of a year. Journal of Affective Disorders. 2023;329:293-299. doi:10.1016/j.jad.2023.02.084

8   Yom-Tov, E., Lekkas, D., **Heinz, M. V**., Nguyen, T., Barr, P. J., & Jacobson, N. C. (2022). Digitally filling the access gap in mental health care: An investigation of the association between rurality and online engagement with validated self-report screens across the United States. Journal of psychiatric research, 157, 112–118. Advance online publication. https://doi.org/10.1016/j.jpsychires.2022.11.024

7   Price, G., **Heinz, M.V.**, Zhao, D., Nemesure, M.D., Ruan, F., Jacobson, N.C., An Unsupervised Machine Learning Approach Using Passive Activity to Understand Depression and Schizophrenia. Journal of Affective Disorders. 2022. https://doi.org/10.1016/j.jad.2022.08.013

6   Price GD, **Heinz MV**, Nemesure MD,McFadden J and Jacobson NC (2022) Predicting symptom response and engagement in a digital intervention among individuals with schizophrenia and related psychoses. Frontiers in Psychiatry 13:807116.doi: 10.3389/fpsyt.2022.807116

5   **Heinz M.V.**, Price GD, Ruan F, et al. Association of Selective Serotonin Reuptake Inhibitor Use With Abnormal Physical Movement Patterns as Detected Using a Piezoelectric Accelerometer and Deep Learning in a Nationally Representative Sample of

Noninstitutionalized Persons in the US. JAMA Network Open. 2022;5(4):e225403. doi:10.1001/jamanetworkopen.2022.5403

4   Nemesure, M.D., **Heinz, M.V.**, Huang, R. Jacobson, N.. Predictive modeling of depression and anxiety using electronic health records and a novel machine learning approach with artificial intelligence. *Sci Rep* 11, 1980 (2021). https://doi.org/10.1038/s41598-021-81368-4

3   Jacobson, N.C., Yom-Tom, E., Lekkas, D., **Heinz, M.V**., Liu, L., Barr, P. Impact of Online Mental Health Screening Tools on Help-Seeking, Care Receipt, and Suicidal Ideation and Suicidal Intent: Evidence from Internet Search Behavior in a Large Cohort. Journal of Psychiatric Research, 2022.

2   Jacobson, N.C., Lekkas, D., Price, G.P., **Heinz, M.V**., Song, M., O'Malley, J.O. & Barr, P.J. Flattening the Mental Health Curve: COVID-19 Stay-at-Home Orders Result in Alterations in Mental Health Search Behavior in the United States. JMIR, 2020.

1   Meng X†, **Heinz M†,** Ganoe CH, Sieberg RT, Cheung YY, Hassanpour S. (2019) Understanding Urgency in Radiology Reporting: Identifying Associations Between Clinical Findings in Radiology Reports and Their Prompt Communication to Referring Physicians. Stud Health Technol Inform. PubMed PMID: 31438224. † Authors Made Equal Contribution.

B. MANUSCRIPTS IN REVIEW AND PREPRINT

Damien Lekkas, **Heinz, M.V.**, Amanda C. Collins, Anastasia Bryan, Jenny Y. Oh, Nicholas C. Jacobson (2024). When Widespread Crises are Personally Relevant: A Longitudinal Mixed Model Analysis of COVID Perceived Stress in a Sample with Major Depressive Disorder. In Review.

Heinz, M.V., Elad Yom-Tov Daniel M. Mackin, Rina Matsumura, Nicholas C. Jacobson. (2024) SSRI Footprints in 510 Million Web Search Queries. In Review.

Heinz, M.V., Damien Lekkas, Veronica Abreu, Camilla Lee, Lisa A. Marsch, Nicholas C. Jacobson (2024). A Randomized Controlled Trial Testing the Feasibility, Acceptability, and Preliminary Effectiveness of a Mobile Intervention for Depression and Anxiety among Persons Receiving Medication Treatment for Opioid Use Disorder. In Review. Nature Mental Health Research.

Lekkas, D., Yom-Tov, E., **Heinz, M.V.**, Gyorda, J., Nguyen, T., Barr, P., Jacobson, N.C. (2023) The Trajectories of Online Mental Health Information Seeking: Modeling Search Behavior Before and After Completion of Self-report Screens. In Review.

Subigya Nepal, Arvind Pillai, Weichen Wang, Tess Griffin, Amanda Collins, **Michael V. Heinz**, Damien Lekkas, Shayan Mirjafari, Matthew Nemesure, George Price, Nicholas Jacobson, and Andrew Campbell. (2023) MoodCapture: Depression Detection using In-the-Wild Smartphone Images Digital Mental Health & AI Symposium. Dartmouth College. In Review. https://cs.dartmouth.edu/~sknepal/paper/moodcapture.pdf.

Amanda C. Collins, Damien Lekkas, Matthew D. Nemesure, Tess Z Griffin, George D. Price, Arvind Pillai, Subigya Nepal, **Michael V. Heinz**, Andrew T. Campbell, & Nicholas C. Jacobson (2023, March 23). Semantic signals in self-reference: The detection and

prediction of depressive symptoms from the daily diary entries of a sample with major depressive disorder. Retrieved from psyarxiv.com/vwpd8

Nemesure, Matthew D., Amanda C. Collins, George Price, Tess Z. Griffin, Arvind Pillai, Subigya Nepal, **Michael V. Heinz**, et al. (2022, October 27). Depressive Symptoms as a Heterogeneous and Constantly Evolving Dynamical System: Idiographic Depressive Symptom Networks of Rapid Symptom Changes among Persons with Major Depressive Disorder. https://doi.org/10.31234/osf.io/pf4kc (2023)

Subigya Nepal, Weichen Wang, Arvind Pillai, Xuhai Xu, Shayan Mirjafari, Mikio Obuchi, **Michael Heinz**, Matthew Nemesure, Damien Lekkas, Tess Griffin, Robert Klein, Ben Buck, Nicholas Jacobson, Dror Ben-Zeev, Deanna Barch, Andrew Campbell. Identifying Mental Health Diagnoses with Mobile Phone Sensing (2022)

Nemesure, M. D., **Heinz, M. V.**, Klein, R. J., McFadden, J. R. & Jacobson, N. C. Predictive Modeling Approach to Evaluate Individual Response to a Physical Activity Digital Intervention for Subjects with Major Depressive Disorder. (2021). Doi:10.31234. https://psyarxiv.com/3kjyh/

Greg M. Silverman, Raymond L. Finzel, **Heinz, M.V.**, Jake Vasilakes, Reed McEwan, Benjamin C. Knoll, Christopher J. Tignanelli, Hongfang Liu, Hua Xu, Xiaoqian Jiang, Genevieve B. Melton, Serguei VS Pakhomov. Extraction of UMLS Concepts from Clinical Notes using Ensembles of NLP Systems. https://arxiv.org/abs/2108.02255

C. BOOK CHAPTERS

NUMBER	BOOK CHAPTER TITLE
2	**Heinz, M.V**., Price, G., Song, S., Bhattacharya, S. & Jacobson, N.C. (2022). Passive Sensing and Generalized Anxiety Disorder. In I.C.Passos, F.D. Rabelo-da-Ponte, & F. Kapczinski (Eds.), Digital Mental Health - A Practitioner's Guide: Springer Nature.
1	**Heinz M.V.**, Thomas NX, Nguyen ND, Griffin TZ, Jacobson NC. Technological advances in clinical assessment. In: Asmundson GJG, editor. Comprehensive clinical psychology. 2nd edition. Elsevier: 2022. p. 301-320. ISBN 9780128222324.

C. APPLICATIONS AND SOFTWARE DEVELOPMENT

5	**Heinz, MV**, Jacobson, N.C. (2023). Open Source Web Platform for Phone Verification and Study Randomization. Available via Github mvh57.
4	**Heinz, MV**, Haslett, W., Zhou, K., Quist, R., Jacobson, N.C. (2022). Web Platform for Collecting Manually Curated Data for AI-driven Therapist. (https://www.therasource.net), Dartmouth College VPN Required to Access.
3	**Heinz, MV**, Koby, TR (2019). Algorithm for Detecting Positioning of Endoscopic Camera in Human Tissue. In Use By Artisight. (https://www.artisight.com).
2	**Heinz, MV** (2019). Algorithm for automated detection and registration of bluetooth n-angulation devices. In operation 2019-2022. (https://www.artisight.com).
1	**Heinz, MV**, Antosh, R. (2014-). QuidPro. A Collaborative Q&A Bank for Medical Education. Live URL: www.quidpro.net, 200+ currently registered users.

D. PEER REVIEWED PRESENTATIONS AND ABSTRACTS

NUMBER   PRESENTATION

17   Subigya Nepal, Arvind Pillai, Weichen Wang, Tess Griffin, Damien Lekkas, Matthew Nemesure, **Michael V. Heinz**, Nicholas Jacobson, and Andrew Campbell. (2023) LifeSense: Examining the Potential of In-the-Wild Smartphone Images for Depression Detection. Digital Mental Health & AI Symposium. Dartmouth College.

16   George D. Price, Matthew Nemesure, **Michael V. Heinz**, Tess Z Griffin, Arvind Pillai, Amanda C. Collins, Subigya Nepal, Damien Lekkas, Andrew T. Campbell, Nicholas C. Jacobson. (2023) Predicting Future MDD Symptom Variability With Passively-Collected Wearable Movement Information In A Clinical Population: A Machine Learning Approach. Digital Mental Health & AI Symposium. Dartmouth College.

15   **Heinz, M.V.**, Price, G., Ruan, F., Klein, R., Nemesure, M.D., Lopez, A., Jacobson, N.C. (2023) Detecting Use of Antidepressants Using Passively Wearable Movement Data and Deep Learning in a Large Nationally Representative Sample. Digital Mental Health & AI Symposium. Dartmouth College.

14   Moreno, V. A., Price, G. D., Collins, A. C., Oh, J. Y., **Heinz, M. V.**, Mackin, D. M., Jacobson, N.C. (2023, November). Recall Biases and Self-Reporting of Physical Activity and Sleep in Individuals with Major Depressive Disorder. Poster to be presented at the 57th annual meeting of the Association for Behavioral and Cognitive Therapies, Seattle, WA.

13   Tlachac, ML, Reisch, M, and **Heinz, MV**. Mobile Communication Log Time Series to Detect Depressive Symptoms. 45th Annual International Conference of the IEEE Engineering in Medicine and Biology Society. Sydney, Australia, 2023.

12   Collins, A. C., Lekkas, D., Nemesure, M. D., Griffin, T. Z., Price, G. D., Pillai, A., Nepal, S., **Heinz, M.** V., Campbell, A. T., & Jacobson, N. C. (2023, November). Semantic signals in self-reference: The detection and prediction of depressive symptoms from the daily diary entries of a sample with major depressive disorder. Talk to be presented at the 57th annual meeting of the Association for Behavioral and Cognitive Therapies, Seattle, WA.

11   **Michael V. Heinz**, George D. Price, Amanda C. Collins, Nicholas C. Jacobson. A Novel Deep Learning Approach Using Time Series Actigraphy for MDD Ambulatory Detection in a Large Nationally Representative Sample. Society For Ambulatory Assessment (2023) Amsterdam, Netherlands 2023 June Meeting, Accepted as Full Paper Presentation.#

10   George D. Price, Matthew Nemesure, **Michael V. Heinz**, Tess Z Griffin, Arvind Pillai, Amanda C. Collins, Subigya Nepal, Damien Lekkas, Andrew T. Campbell, Nicholas C. Jacobson. Predicting Future MDD Symptom Variability With Passively-Collected Wearable Movement Information In A Clinical Population: A Machine Learning Approach. Anxiety and Depression Association of America Annual Conference 2023, Washington D.C.

9   Price, G., **Heinz, M.V.,** Ruan, F., Klein, R., Nemesure, M.D., Lopez, A., Jacobson, N.C. (2022, March, Denver Meeting) Detecting Use of Antidepressants Using Passively Wearable

Movement Data and Deep Learning in a Large Nationally Representative Sample. Anxiety and Depression Association of America Conference.

8   Fields, A, **Heinz, MV**, Yoon, M, Kisicki, M. (2021 April). Maintenance ECT in the Treatment of OCD with Somatic Symptoms. Poster presented at the New Hampshire Psychiatry April Meeting, Lebanon, NH USA.

7   Jacobson, N. C., **Heinz, MV**, & Kim, J. (2021, April). Designing A Generative Mental Health Chatbot Using Artificial Intelligence. In Annals Of Behavioral Medicine (Vol. 55, Pp. S558-S558). Journals Dept, 2001 Evans Rd, Cary, Nc 27513 Usa: Oxford Univ Press Inc.

6   **Heinz M**, Tauber K, Schleyer W, Keller W. (2020, September) Topiramate Induced Psychosis: A Case Study and Comprehensive Literature Review. Poster presented at the annual meeting of New Hampshire Psychiatry Society , Lebanon, NH USA (virtual conference), Poster Prize ($50) Winner

5   Nemesure, M.D., **Heinz, M.V.**, Huang, R., & Jacobson, N.C. (2020, November). Predictive Modeling of Psychiatric Illness using Electronic Medical Records and a Novel Machine Learning Approach with Artificial Intelligence. Oral symposium presented at Association for Behavioral and Cognitive Therapies (ABCT) in November 2020 Philadelphia, PA. #

4   Nemesure M, **Heinz MV**, Huang R, Jacobson N. (2020) Predictive Modeling of Psychiatric Illness using Electronic Medical Records and a Novel Machine Learning Approach with   Artificial Intelligence [Original Research] American Psychiatric Association Annual Meeting, Philadelphia, PA. (Conference canceled due to COVID-19.)

3   **Heinz M**, Tauber K, Schleyer W, Keller W. (2020, March) Topiramate Induced Psychosis: A Case Study and Comprehensive Literature Review. Poster presented at the annual meeting of British Neuropsychiatry Association, London, UK. https://jnnp.bmj.com/content/91/8/e22.2.

2   Meng X*, **Heinz MV*,** Ganoe CH, Sieberg RT, Cheung YY, Hassanpour S. (2019, August)Understanding Urgency in Radiology Reporting: Identifying Associations Between Clinical Findings in Radiology Reports and Their Prompt Communication to Referring Physicians. Poster presented at the Medical Informatics International Conference, Lyon, France.

1   Wilson B, **Heinz MV**, McCord S, Ley M. Feedback CPR: Breathing New Life Into Evaluations of Medical Students and Trainees. Presentation Panelist American Psychiatric Association 2019 Conference, San Francisco, CA.

Licensure and Certification

2022-	Vermont Board of Medicine, Licensed
2021-	American Board of Psychiatry and Neurology **(Scored in top 15% of test-takers)**
2021-	New Hampshire Board of Medicine, Licensed
2019	Buprenorphine Waiver Training
2019	Yellow Belt Training Course and Certification

Hospital or Health System Appointments

2021-   Adult Psychiatrist, Hanover Psychiatry, Hanover, NH
2021 -   Attending Psychiatrist, Dartmouth-Hitchcock Medical Center, Lebanon, NH

Consulting Activities

2019-2020   Artisight (Machine Vision Technology, artisight.com). Private Contractor, Software Development.

Professional Development Activities

2024   US ARMY Direct Commissioning Course (DCC); recipient of Commander's Coin
2024   US ARMY Basic Officer Leadership Course Part I
2023   Amazon Web Services (AWS) Research Immersion Workshop
2022   Completed Data Analysis with R Programming, Google Data Analytics, Coursera
2020   Completed Neural Networks and Deep Learning, Machine Learning Track, Coursera
2020   Completed Sequence Models, Machine Learning Track, Coursera
2020   Completed Advanced NLP with spaCY, DataCamp
2019   Completed Dartmouth SYNERGY RedCap Workshop

Administrative Activity

Teaching Activities

Institutional Activities

2020   Department of Psychiatry Journal Club, Dartmouth Hitchcock Medical Center
2019   Department of Psychiatry Journal Club, Dartmouth Hitchcock Medical Center
2019   Substance Use, Social Media, and Artificial Intelligence, VA Medical Center
2019   Department of Psychiatry Journal Club, Dartmouth Hitchcock Medical Center
2019   Healthy Aging Lecture, New Hampshire Psychiatric Hospital
2018   Department of Psychiatry Journal Club, Dartmouth Hitchcock Medical Center
2018   Department of Psychiatry Journal Club, Dartmouth Hitchcock Medical Center

Supervising Trainees

2021-   Supervision of psychiatry residents on call as attending
2020-2021   Supervision of first year residents on call as senior resident
2017-   Supervision of medical students on psychiatry clerkships and electives

RESEARCH ADVISING

DATES	INSTITUTION	MENTEE	PROGRAM
2023-	Dartmouth College	Karim Khalil	Dartmouth College, Senior Thesis Advisor
2022-	Dartmouth College	Jessica Meikle	Geisel-Jacobson Lab
2022-	Dartmouth College	Anastasia Bryan	Geisel-Jacobson Lab
2021-	Dartmouth College	Veronica Abreau	Geisel-Jacobson Lab
2021-	Dartmouth College	Camilla Lee	Geisel-Jacobson Lab
2022-	Minerva University	Adaobi Amanna	Geisel-Jacobson Lab
2020-	Dartmouth College	Bri Trudeau	Geisel-Jacobson Lab

2020-2022	Dartmouth College	Rachel Quist	Geisel-Jacobson Lab
2023-	Dartmouth College	Ore James	Geisel-Jacobson Lab
2022-	Dartmouth College	Victor Moreno	Geisel-Jacobson Lab
2022-	Dartmouth College	Jonathan Cartwright	
2021-	Dartmouth College	Franklin Ruan	Neukom Scholarship, The John G. Kemeny Computing Prize, and The James O. Freedman Presidential Scholarship; Medical School Composite Letter Writer
2023-	Dartmouth College	Janelle Annor	Senior Project Co-Advisor
2020-	Dartmouth College	Sukanya Bhattacharya	Geisel-Jacobson Lab
2022-	Dartmouth College	Stephen Adjei	Geisel-Jacobson Lab
2022-	Dartmouth College	Abigail Salzhauer	Geisel-Jacobson Lab
2017	Geisel School of Medicine at Dartmouth	Karrisa Tauber	Project-Based

Supported Research Activities

| 2019-2021 | Dartmouth-Hitchcock Psychiatry Residency, Research Track Funding
Development of NLP method for detecting need for urgency in radiology reporting |
|---|---|
| 2021-2022 | R01-MH123482 Funding; Principal Investigator: Dr. Nicholas Jacobson
Development and Maintenance of Participant Enrollment Platform for R01 Funded National Recruitment
Conducted 200+ Structured Clinical Interviews for the DSM-5
Collaboration with Microsoft Research using Bing Data to inform mental health |
| 2022-2024 | T32-CA134286 Funding, Dartmouth Cancer Center Training Grant
Data management for National PANS/PANDAS Retrospective Incidence Study, Led by Drs. Juliette Madan, M.D. and Ellen Wald M.D.
Development of AI driven therapy-bot for mobile phone; available for iOS platform; Beta Testing |

Program Development

2019-	Development of research infrastructure and co-management of database for Dartmouth Hitchcock Pediatric Autoimmune Neuropsychiatric Disorders (PANDAS) Clinic

Entrepreneurial Activities

2023	AutoDoc, Telehealth Psychiatry Automated Transcription Service, The Dartmouth Innovation Accelerator for Digital Health, Dartmouth College

| 2024 | BehaviorSense Analytics, The Dartmouth Innovation Accelerator for Digital Health, Dartmouth College |

Areas of Expertise

Large Language Models	Natural Language Processing
Digital Mental Health	Research Participant Recruitment and Engagement
Mood and Anxiety Disorders	Web Application Development

Memberships, Office and Committee Assignments in Professional Societies

2024-	Sigma Xi, The Scientific Research Honor Society, Full Member
2023-	Institute of Electrical and Electronics Engineers (IEEE)
2023-	Society for Ambulatory Assessment (SAA)
2019-	American Psychiatric Association (APA)
2019-	British Neuropsychiatry Association (BNPA)
2012-	Phi Beta Kappa, Foundation Member (PBK)
2012-	Pi Mu Epsilon, Member (PME)

Institutional Center or Program Affiliations

| 2022- | Department of Epidemiology, Postdoctoral Research Fellow |
| 2021- | Center for Technology and Behavioral Health, Postdoctoral Research Fellow |

Editorial Boards

JOURNAL REFEREE ACTIVITY

Journal Name	Number of Reviews
SAGE Digital Health	3
npj Mental Health Research	1
BMC Digital Health	1
JAMA Network Open	1
American Psychologist	1
Journal of Psychiatric Research	2
Child and Adolescent Psychiatry and Mental Health	1
Scientific Reports (Nature Portfolio)	1
American Family Physician	1
AMIA 2020 Symposium	1
Stress and Health	1
ACM Transactions on Computing for Healthcare	1
Economics and Human Biology	1
HEALTH	1

Grant Review

| 2022 | Invited Grant Reviewer, Puerto Rico Science, Technology & Research Trust |

Awards and Honors

2023	Society for Ambulatory Assessment (SAA) Travel Scholarship
2023	Postdoctoral Scholar Professional Development Award, Dartmouth College
2020	Research Poster Winner, New Hampshire Psychiatric Society
2020	Dartmouth Travel Award for International Research Presentation
2019	Dartmouth Travel Award for International Research Presentation
2018	Gold Humanism and Excellence in Teaching Award, Geisel School of Medicine at Dartmouth
2013-2017	Creighton Family Medicine Scholarship ($80,000)

Other Engagement Activities

INVITED PRESENTATIONS

2023	"Ecological Momentary Intervention of Anxiety and Depression among Persons Receiving Medication Treatment for Opioid Use Disorder", Center for Technology and Behavioral, Dartmouth College
2023	"Digital Health and a Case Study," Invited Speaker at Nathan Smith Society, Dartmouth College, Hanover, NH
2021	"New Applications of Machine Learning in Mental Health," Department of Psychiatry Grand Rounds Invited Speaker, Dartmouth-Hitchcock Medical Center, Lebanon, NH
2021	"The ChatBot Will See You Now: Development of a Deep-Learning Powered Therapist," Invited Speaker at The Center for Technology and Behavioral Health, Dartmouth College, Hanover, NH

MILITARY

| 2018- | U.S. Army Reserve Officer (CAPTAIN, O3). Army Medical Department Professional Management Command. |

Selected Media & Press

Eugene Van Der Watt. "AI smartphone app can detect depression from facial cues." Daily AI. March 4, 2024.

Barath, Harini. "From Ideas to Impact: Symposium on Digital Therapeutics." Dartmouth News. October 2023.

Green, Susan. "Detecting Potential Medication Side Effects in Treating Depression and Anxiety." Dartmouth Geisel School of Medicine News. April 2022.

Bio Short Version

Michael V. Heinz is a research psychiatrist at Dartmouth College and Dartmouth Health, with an interest in scalable digital technologies for assessing and treating mental health problems. He is completing a research fellowship at the Artificial Intelligence and Mental Health Lab at the Dartmouth Center for Technology and Behavioral Health. His work there emphasizes the use of passively collected data, such as movement and heart rate, to understand mental health problems. Dr. Heinz has co-led multiple clinical trials, including an app-based digital intervention for co-occurring substance use disorders and the ongoing Therabot trial, which explores the preliminary effectiveness and feasibility of an AI-driven therapy robot. As a member of Dartmouth's Psychiatry Immunology and Neurology Group, he works in a multi-hospital collaboration investigating neurological and psychiatric disorders following infections or illnesses. His research has allowed for productive collaborations with various industry partners, including Microsoft Research and Artisight. Dr. Heinz sees adult clients at Dartmouth Health's Hanover Psychiatry, specializing in the treatment of mood and anxiety disorders through medications and psychotherapy.